

COMMISSIONER OF PATENTS AND TRADEMARKS
 Washington, D.C. 20231
 FORM PTO-1449 (Modified)
 LIST OF PATENTS AND PUBLICATIONS
 FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT
 Sheet 1 of 19

In re the Application of Barnett et al.

Examiner: B. Whiteman

Serial No.: 09/475,704

Art Unit: 1635

Filed: December 30, 1999

Confirmation No.: 6738

Title: POLYNUCLEOTIDES ENCODING ANTIGENIC TYPE C POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF

Atty. Docket No.: 1631.002 (2302-1631)

U.S. PATENT DOCUMENTS

Ex'r Initial	Ref. No.	Document No.	Date	Name	Class	SubClass	Filed
P	AA-1	5,032,510	July 16, 1991	Kovacevic et al.			
	AB-1	RE 33,653	July 30, 1991	Mark et al.			
	AC-1	5,128,319	July 7, 1992	Arlinghaus			
	AD-1	5,256,767	October 26, 1993	Salk et al.			
	AF-1	5,304,472	April 19, 1994	Baes et al.			
	AF-1	5,364,773	November 15, 1994	Paoletti et al.			
	AG-1	5,419,900	May 30, 1995	Lane et al.			
	AH-1	5,503,833	April 2, 1996	Redmond et al.			
	AI-1	5,550,280	August 27, 1996	Dao-Cong et al.			
	AJ-1	5,637,677	June 10, 1997	Greene et al.			
	AK-1	5,665,569	September 9, 1997	Ohno			
	AL-1	5,665,720	September 9, 1997	Young et al.			
	AM-1	5,670,152	September 23, 1997	Weiner et al.			
	AN-1	5,683,864	November 4, 1997	Houghton et al.			
	AO-1	5,686,078	November 11, 1997	Becker et al.			
	AP-1	5,693,755	December 2, 1997	Buenagurio et al.			
	AQ-1	5,712,088	January 27, 1998	Houghton et al.			
	AR-1	5,714,596	February 3, 1998	Houghton et al.			
	AS-1	5,728,520	March 17, 1998	Weiner et al.			
	AT-1	5,741,492	April 21, 1998	Hurwitz et al.			
P	AU-1	5,750,373	May 12, 1998	Gerrard et al.			

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Date Considered:

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<u>PL</u>	AV-1	5,766,845	June 16, 1998	Weiner et al.
	AW-1	5,817,637	October 6, 1998	Weiner et al.
	AX-1	5,837,242	November 17, 1998	Holliger et al.
	AY-1	5,837,818	November 17, 1998	Buonagurio et al.
	AZ-1	5,853,736	December 29, 1998	Becker et al.
	BA-1	5,858,675	January 12, 1999	Hillman et al.
	BB-1	5,866,320	February 2, 1999	Rovinski et al.
	BC-1	5,871,747	February 16, 1999	Gengoux-Sedlik et al.
	BD-1	5,879,907	March 9, 1999	Aberg, et al.
	BE-1	5,879,925	March 9, 1999	Rovinski, et al.
	BF-1	5,889,176	March 30, 1999	Rovinski et al.
	BG-1	5,932,445	August 3, 1999	Lal et al.
	BH-1	5,951,975	September 14, 1999	Falo Jr., et al.
	BI-1	5,955,342	September 21, 1999	Rovinski et al.
	BJ-1	5,965,726	October 12, 1999	Pavlakis et al.
	BK-1	5,972,596	October 26, 1999	Pavlakis et al.
	BL-1	6,001,977	December 14, 1999	Chang et al.
	BM-1	6,004,763	December 21, 1999	Gengoux et al.
	BN-1	6,025,125	February 15, 2000	Rovinski et al.
	BO-1	6,060,273	May 9, 2000	Dirks et al.
	BP-1	6,060,587	May 9, 2000	Weiner et al.
	BO-1	6,063,384	May 16, 2000	Morrow et al.
<u>BR</u>	BR-1	6,074,636	June 13, 2000	Nichols

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<u>Pb</u>	BS-1	6,080,408	June 27, 2000	Rovinski et al.		
	BT-1	6,087,486	July 11, 2000	Weiner et al.		
	BU-1	6,093,800	July 25, 2000	Reiter et al.		
	BV-1	6,096,505	August 1, 2000	Selby et al.		
	BW-1	6,099,847	August 8, 2000	Tobin et al.		
	BX-1	6,114,148	September 5, 2000	Seed et al.		
	BY-1	6,132,973	October 17, 2000	Lal et al.		
	BZ-1	6,139,833	October 31, 2000	Burgess et al.		
	CA-1	6,140,059	October 31, 2000	Schawaller		
	CB-1	6,146,635	November 14, 2000	Cano et al.		
	CC-1	6,172,201	January 9, 2001	Weiner et al.		
	CE-1	6,174,666	January 16, 2001	Pavlakis et al.		
	CE-1	6,214,804	April 10, 2001	Felgner et al.		
	CE-1	6,291,157	September 18, 2001	Rovinski et al.		
	CG-1	6,291,664	September 18, 2001	Pavlakis et al.		
	CH-1	6,316,253	November 13, 2001	Innis et al.		
<u>PV</u>	CI-1	6,331,404	December 18, 2001	Berman et al.		

FOREIGN PATENT DOCUMENTS

Ex'r Initial	Ref. No.	Document No.	Published	Country	Class	SubClass	Translation YES NO
<u>PV</u>	CJ-1	WO 86/03224	June 5, 1986	PCT WIPO			
	CK-1	WO 87/02775	May 7, 1987	PCT			
	CL-1	WO 88/00471	January 28, 1988	PCT			
<u>PV</u>	CM-1	WO 88/10300	December 29, 1988	PCT WIPO			

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DV	CN-1	WO 89/01940	March 9, 1989	PCT WIPU				
	CO-1	WO 89/02277	March 23, 1989	PCT				
	CP-1	WO 89/02922	April 6, 1989	PCT				
	CQ-1	WO 89/03222	April 20, 1989	PCT				
	CR-1	WO 90/02568	March 22, 1990	PCT				
	CS-1	WO 90/03984	April 19, 1990	PCT				
	CT-1	WO 90/10438	September 20, 1990	PCT				
	CU-1	WO 90/11092	October 4, 1990	PCT				
	CV-1	WO 90/11359	October 4, 1990	PCT				
	CW-1	WO 90/12094	October 18, 1990	PCT				
	CX-1	WO 90/15141	December 13, 1990	PCT				
	CY-1	WO 91/04273	April 4, 1991	PCT				
	CZ-1	WO 91/06319	May 16, 1991	PCT				
	DA-1	WO 91/07425	May 30, 1991	PCT				
	DB-1	WO 91/07510	May 30, 1991	PCT				
	DC-1	WO 91/13360	September 5, 1991	PCT				
	DD-1	WO 91/13906	September 19, 1991	PCT				
	DE-1	WO 91/15238	October 17, 1991	PCT				
	DF-1	WO 91/15512	October 17, 1991	PCT				
	DG-1	WO 91/16926	November 14, 1991	PCT				
	DH-1	WO 91/18928	December 12, 1991	PCT				
	DI-1	WO 91/19803	December 26, 1991	PCT				
DV	DJ-1	WO 92/03475	March 5, 1992	PCT WIPU				

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<i>B</i>	DK-1	WO 92/04046	March 19, 1992	PCT WIPO	/	/	/	/
	DL-1	WO 92/05799	April 16, 1992	PCT				
	DM-1	WO 93/02102	February 4, 1993	PCT				
	DN-1	WO 93/04090	March 4, 1993	PCT				
	DO-1	WO 93/08836	May 13, 1993	PCT				
	DP-1	WO 93/14789	August 5, 1993	PCT				
	DQ-1	WO 93/20212	October 14, 1993	PCT				
	DR-1	WO 93/21346	October 28, 1993	PCT				
	DS-1	WO 93/23569	November 25, 1993	PCT				
	DT-1	WO 94/04574	March 3, 1994	PCT				
	DU-1	WO 94/07922	April 14, 1994	PCT				
	DV-1	WO 94/11523	May 26, 1994	PCT				
	DW-1	WO 94/13804	June 23, 1994	PCT				
	DX-1	WO 94/15621	July 21, 1994	PCT				
	DY-1	WO 94/16060	July 21, 1994	PCT				
	DZ-1	WO 94/16737	August 4, 1994	PCT				
	EA-1	WO 94/18221	August 18, 1994	PCT				
	EB-1	WO 94/20141	September 15, 1994	PCT				
	EC-1	WO 94/20640	September 15, 1994	PCT				
	ED-1	WO 94/22477	October 13, 1994	PCT				
	EE-1	WO 94/26293	November 24, 1994	PCT				
	EF-1	WO 94/29339	December 22, 1994	PCT				
<i>B</i>	EG-1	WO 95/03407	February 2, 1995	PCT WIPO				

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<i>DV</i>	EH-1	WO 95/04818	February 16, 1995	PCT <i>WIPO</i>				
	EI-1	WO 95/11317	April 27, 1995	PCT				
	EJ-1	WO 95/11701	May 4, 1995	PCT				
	EK-1	WO 95/24485	September 14, 1995	PCT				
	EL-1	WO 95/25124	September 21, 1995	PCT				
	EM-1	WO 95/27505	October 19, 1995	PCT				
	EN-1	WO 95/29700	November 9, 1995	PCT				
	EO-1	WO 95/33206	December 7, 1995	PCT				
	EP-1	WO 95/33835	December 14, 1995	PCT				
	EQ-1	WO 96/02273	February 1, 1996	PCT				
	ER-1	WO 96/02557	February 1, 1996	PCT				
	ES-1	WO 96/04382	February 15, 1996	PCT				
	ET-1	WO 96/09066	March 28, 1996	PCT				
	EU-1	WO 96/09378	March 28, 1996	<i>WIPO</i>				
	EV-1	WO 96/16178	May 30, 1996	PCT				
	EW-1	WO 96/20732	July 11, 1996	PCT				
	EX-1	WO 96/23509	August 8, 1996	PCT				
	EY-1	WO 96/25177	August 22, 1996	PCT				
	EZ-1	WO 96/40290	December 19, 1996	PCT				
	FA-1	WO 97/03198	January 30, 1997	PCT				
	FB-1	WO 97/11605	April 3, 1997	PCT				
	FC-1	WO 97/26009	July 24, 1997	PCT				
<i>DW</i>	FD-1	WO 98/08539	March 5, 1998	PCT <i>WIPO</i>				

Examiner: *Brian A. [Signature]*

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<i>B</i>	FE-1	WO 98/41536	September 24, 1998	PCT				
	FF-1	WO 98/41645	September 24, 1998	PCT				
	FG-1	WO 98/43182	October 1, 1998	PCT				
	FH-1	WO 98/48843	November 5, 1998	PCT				
	FI-1	WO 98/59074	December 30, 1998	PCT				
	FJ-1	WO 99/02694	January 21, 1999	PCT				
	FK-1	WO 99/06599	February 11, 1999	PCT				
	FL-1	WO 99/09412	February 25, 1999	PCT				
	FM-1	WO 99/12416	March 18, 1999	PCT				
	FN-1	WO 99/13864	March 25, 1999	PCT				
	FO-1	WO 99/16883	April 8, 1999	PCT				
	FP-1	WO 99/33346	July 8, 1999	PCT				
	FQ-1	WO 99/41398	August 19, 1999	PCT				
	FR-1	WO 99/52463	October 21, 1999	PCT				
	FS-1	WO 99/53960	October 28, 1999	PCT				
	FT-1	WO 99/67395	December 29, 1999	PCT				
	FU-1	WO 00/08043	February 17, 2000	PCT				
	FV-1	WO 00/18929	April 6, 2000	PCT				
	FW-1	WO 00/21556	April 20, 2000	PCT				
	FX-1	WO 00/39302	July 6, 2000	PCT				
	FY-1	WO 00/39303	July 6, 2000	PCT				
	FZ-1	WO 00/39304	July 6, 2000	PCT				
<i>B</i>	GA-1	WO 00/44926	August 3, 2000	PCT WIPU				

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<i>DV</i>	GB-1	WO 00/65076	November 2, 2000	PCT <i>W110</i>				
	GC-1	WO 00/66179	November 9, 2000	PCT				
	GD-1	WO 00/67761	November 16, 2000	PCT				
	GE-1	WO 00/67787	November 16, 2000	PCT				
	GF-1	WO 00/71561	November 30, 2000	PCT				
	GG-1	WO 01/02607	January 11, 2001	PCT				
	GH-1	WO 01/12223	February 22, 2001	PCT				
	GI-1	WO 01/16342	March 8, 2001	PCT				
	GJ-1	WO 01/19958	March 22, 2001	PCT				
	HK-1	WO 01/21270	March 29, 2001	PCT				
	HL-1	WO 01/26681	April 19, 2001	PCT				
	HM-1	WO 01/29225	April 26, 2001	PCT				
	HN-1	WO 01/36614	May 25, 2001	PCT				
	HO-1	WO 01/42308	June 14, 2001	PCT				
	HP-1	WO 01/43693	June 21, 2001	PCT				
	HQ-1	WO 01/45748	June 28, 2001	PCT				
	HR-1	WO 01/46408	June 28, 2001	PCT				
	HS-1	WO 01/47955	July 5, 2001	PCT				
	HT-1	WO 01/54701	August 2, 2001	PCT				
	HU-1	WO 01/54719	August 2, 2001	PCT				
	HV-1	WO 01/60838	August 23, 2001	PCT				
	HW-1	WO 01/60393	August 23, 2001	PCT <i>W110</i>				
<i>DV</i>	HX-1	EP 0187041	July 9, 1986	EPO				

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<i>PV</i>	HY-1	EP 0199301A1	October 29, 1986	EPO					
	HZ-1	EP 0242216	October 21, 1987	EPO					
	IA-1	EP 0314317A1	May 3, 1989	EPO					
	IB-1	EP 0449116B1	October 2, 1991	EPO					
	IC-1	EP 0617132A2	September 28, 1994	EPO					
<i>BW</i>	ID-1	EP 0449116B1	October 2, 1999	EPO					

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ex'r Initial	Ref. No.	Description
<i>PV</i>	IE-1	GenBank accession no: AF110965
	IF-1	GenBank accession no: AF110967
	IG-1	GenBank accession no: AF110968
	IH-1	GenBank accession no: AF110975
	II-1	GenBank accession no: M65024
<i>BW</i>	IJ-1	Adams et al., "The Expression of Hybrid Hiv:ty Virus-like Particles in Yeast," <i>Nature</i> <u>329</u> :68-70 (1987)
	IK-1	Anderson, et al., "Human Gene Therapy," <i>Nature</i> <u>392</u>(6679 Suppl):25-30 (1998)
<i>BW</i>	IL-1	Arthur, et al., "Serological Responses in Chimpanzees Inoculated with Human Immunodeficiency Virus Glycoprotein (Gp120) Subunit Vaccine," <i>Proc Natl Acad Sci USA</i> <u>84</u> (23):8583-8587 (1987)
	IM-1	Azevedo et al., "Main Features of DNA-Based Immunization Vectors," <i>Braz J Med Biol Res.</i> <u>32</u> (2):147-153 (1999)
	IN-1	Baker et al., "Structures of Bovine and Human Papillomaviruses. Analysis by Cryoelectron Microscopy and Three-dimensional Image Reconstruction," <i>Biophys. J.</i> <u>60</u> :1445-1456 (1991)
	IO-1	Barr, et al., "Antigenicity and Immunogenicity of Domains of the Human Immunodeficiency Virus (HIV) Envelope Polypeptide Expressed in the Yeast <i>Saccharomyces cerevisiae</i> ," <i>Vaccine</i> <u>5</u> (2):90-101 (1987)
<i>BW</i>	IP-1	Barrett, et al., "Large-scale production and purification of a vaccinia recombinant-derived HIV-1 gp160 and analysis of its immunogenicity," <i>AIDS Res Hum Retroviruses</i> <u>5</u> (2):159-71 (1989)

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Ex'r Initial	Ref. No.	Description
P✓	IQ-1	Beard, W. A., et al., "Role of the "Helix Clamp" in HIV-1 Reverse Transcriptase Catalytic Cycling as Revealed by Alanine-Scanning Mutagenesis," <i>Journal Of Biological Chemistry</i> 271(21):12213-12220 (1996)
	IR-1	Berger, P.B., "New Directions in Research: Report from the 10th International Conference on AIDS," <i>Canadian Medical Association Journal</i> 152(12):1991-1995 (1995)
	IS-1	Berman, et al., "Human Immunodeficiency Virus Type 1 Challenge of Chimpanzees Immunized with Recombinant Envelope Glycoprotein gp120," <i>Proc Natl Acad Sci USA</i> 85(14):5200-5204 (1988)
	IT-1	Berman, et al., "Expression and Immunogenicity of the Extracellular Domain of the Human Immunodeficiency Virus Type 1 Envelope Glycoprotein, gp160," <i>J Virol.</i> 63(8):3489-3498 (1989)
	IU-1	Birx and Redfield, "HIV Vaccine Therapy," <i>Int J Immunopharmacol.</i> 13(1):129-132 (1991)
	IV-1	Bolognesi, D.P., "Progress in Vaccines Against AIDS," <i>Science</i> 246:1233-1234 (1989)
	IW-1	Borrow, et al., "Virus-Specific CD8+ Cytotoxic T-Lymphocyte Activity Associated with Control of Viremia in Primary Human Immunodeficiency Virus Type 1 Infection," <i>J Virol.</i> 68(9):6103-6110 (1994)
	IX-1	Bourgault, et al., "Cytotoxic T-Cell Response and AIDS-Free Survival in Simian Immunodeficiency Virus-Infected Macaques," <i>AIDS.</i> 7 (Suppl 2):S73-S79 (1993)
	IY-1	Brown et al., "Chimeric Parvovirus B19 Capsids for the Presentation of Foreign Epitopes," <i>Virology</i> 198:477-488 (1994)
P✓	IZ-1	Bujacz, G., et al., "The Catalytic Domain of Human Immunodeficiency Virus Integrase: Ordered Active Site in the F185H Mutant," <i>Febs Letters</i> 398(2-3):175-178 (1996)
	JA-1	Burton et al., "Why Do We Not Have an HIV Vaccine and How Can We Make One?" <i>Nat Med.</i> 4(5 Suppl):495-498 (1998)
P✓	JB-1	Carmichael et al., "Quantitative Analysis of the Human Immunodeficiency Virus Type 1 (Hiv-1)-specific Cytotoxic T Lymphocyte (Ctl) Response at Different Stages of Hiv-1 Infection: Differential Ctl Responses to Hiv-1 and Epstein-barr Virus in Late Disease," <i>J Exp Med.</i> 177(2):249-256 (1993)
	JC-1	Chazal N. et al., "Phenotypic Characterization of Insertion Mutants of the Human Immunodeficiency Virus Type 1 Gag Precursor Expressed in Recombinant Baculovirus-infected Cells," <i>Virology</i> 68(1):111-122 (1994)
P✓	JD-1	Ciernik et al., "Induction of Cytotoxic T Lymphocytes and Antitumor Immunity with Dna Vaccines Expressing Single T Cell Epitopes," <i>J. Immunol.</i> 156(7):2369-2375 (1996)

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Confirmation No.: 6738

Title: POLYNUCLEOTIDES ENCODING ANTIGENIC TYPE C POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF

Atty. Docket No.: 1631.002 (2302-1631)

Ex'r Initial	Ref. No.	Description
BW	JE-1	Clavel et al., "Isolation of a New Human Retrovirus from West African Patients with AIDS," <i>Science</i> <u>233</u> :343-346 (1986)
	JF-1	Clavel et al., "Molecular Cloning and Polymorphism of the Human Immune Deficiency Virus Type 2," <i>Nature</i> <u>324</u> :691-695 (1986)
	JG-1	Daar et al., "Transient High Levels of Viremia in Patients with Primary Human Immunodeficiency Virus Type 1 Infection," <i>N Engl J Med.</i> <u>324</u> (14):961-964 (1991)
	JH-1	Davey et al., "Subcutaneous administration of interleukin-2 in human immunodeficiency virus type 1-infected persons," <i>J Infect Dis.</i> <u>175</u> (4):781-789 (1997)
	JI-1	Davies J. F., et al., "Crystal structure of the ribonuclease H domain of HIV-1 reverse transcriptase," <i>Science</i> <u>252</u> (5002):88-95 (1991)
	JJ-1	Deminie et al., "Evaluation of Reverse Transcriptase and Protease Inhibitors in Two-drug Combinations Against Human Immunodeficiency Virus Replication," <i>Antimicrob Agents Chemother.</i> <u>40</u> (6):1346-1351 (1996)
	JK-1	Desai et al., "Molecular Cloning and Primary Nucleotide Sequence Analysis of a Distinct Human Immunodeficiency Virus Isolate Reveal Significant Divergence in its Genomic Sequence," <i>Proc. Natl. Acad. Sci. USA</i> <u>83</u> :8380-8384 (1986)
	JL-1	Doe et al., "Induction of HIV-1 Envelope (gp120)-Specific Cytotoxic T Lymphocyte Responses in Mice by Recombinant CHO Cell-Derived gp120 is Enhanced by Enzymatic Removal of N-Linked Glycans," <i>Eur. J. Immunol.</i> <u>24</u> :2369-2376 (1994)
	JM-1	Doe, B. and Walker, C.M. "HIV-1 p24 Gag-Specific Cytotoxic T-Lymphocyte Responses in Mice," <i>AIDS</i> <u>10</u> (7):793-794 (1996)
	JN-1	Dyda F., et al., "Crystal Structure of the Catalytic Domain of HIV-1 Integrase: Similarity to Other Polynucleotidyl Transferases," <i>Science</i> <u>266</u> (5193):1981-1986 (1994)
	JO-1	Earl et al., "Isolate-and Group-specific Immune Responses to the Envelope Protein of Human Immunodeficiency Virus Induced by a Live Recombinant Vaccinia Virus in Macaques," <i>AIDS Res Hum Retroviruses</i> <u>5</u> (1):23-32 (1989)
	JP-1	Edelman, R., "Vaccine Adjuvants," <i>Rev Infect Dis.</i> <u>2</u> (3):370-383 (1980)
	JQ-1	Engelman, A. et al., "Structure-based Mutagenesis of the Catalytic Domain of Human Immunodeficiency Virus Type 1 Integrase," <i>Journal Of Virology</i> <u>71</u> (5):3507-3514 (1997)
BW	JR-1	Esnouf et al., "Mechanism of Inhibition of HIV-1 Reverse Transcriptase by Nonnucleoside Inhibitors," <i>Structural Biology</i> <u>2</u> (4):303-308 (1995)

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B	JS-1	Evans et al., "An Engineered Poliovirus Chimaera Elicits Broadly Reactive Hiv-1 Neutralizing Antibodies," <i>Nature</i> <u>339</u> (6223):385-388 (1989)
	JT-1	Faust et al., "Outpatient Biopsies of the Palatine Tonsil: Access to Lymphoid Tissue for Assessment of Human Immunodeficiency Virus RNA Titers," <i>Otolaryngol Head Neck Surg.</i> <u>114</u> (4):593-598 (1996)
	JU-1	Fennie et al., "Model for Intracellular Folding of the Human Immunodeficiency Virus Type 1 gp120," <i>J Virol.</i> <u>63</u> (2):639-646 (1989)
	JV-1	Ferre et al., "Combination Therapies Against HIV-1 Infection: Exploring the Concept of Combining Antiretroviral Drug Treatments with HIV-1 Immune-Based Therapies in Asymptomatic Individuals," <i>AIDS Patient Care STDS</i> <u>10</u> (6):357-361 (1996)
	JW-1	Fisher, et al., "Biologically diverse molecular variants within a single HIV-1 isolate," <i>Nature</i> <u>334</u> :444-447 (1988)
	JX-1	Fox et al., "No Winners Against AIDS," <i>Bio/Technology</i> <u>12</u> (2):128 (1994)
	JY-1	Gamier, L. et al., "Particle Size Determinants in the Human Immunodeficiency Virus Type 1 Gag Protein," <i>J Virol.</i> <u>72</u> (6):4667-4677 (1998)
	JZ-1	Goldgur, Y. et al., "Three New Structures of the Core Domain of HIV-1 Integrase: an Active Site That Binds Magnesium," <i>Proceedings Of the National Academy Of Sciences Of the United States Of America</i> <u>95</u> (16):9150-9154 (1998)
	KA-1	Goudsmit et al., "Human Immunodeficiency Virus Type 1 Neutralization Epitope with Conserved Architecture Elicits Early Type-specific Antibodies in Experimentally Infected Chimpanzees," <i>Proc. Natl. Acad. Sci. USA</i> <u>85</u> :4478-4482 (1988)
	KB-1	Greene, "AIDS and the Immune System," <i>Scientific American</i> Sep.:99-105 (1993)
	KC-1	Griffiths J.C. et al., "Hybrid Human Immunodeficiency Virus Gag Particles as an Antigen Carrier System: Induction of Cytotoxic T-cell and Humoral Responses by a Gag:V3 Fusion," <i>J. Virol.</i> <u>67</u> (6):3191-3198 (1993)
	KD-1	Grimison B. and Laurence, J., "Immunodominant Epitope Regions of HIV-1 Reverse Transcriptase: Correlations with HIV-1 + Serum IgG Inhibitory to Polymerase Activity and With Disease Progression," <i>Journal Of Acquired Immune Deficiency Syndromes and Human Retrovirology</i> <u>9</u> (1):58-68 (1995)
B	KE-1	Gurgo et al., "Envelope Sequences of Two New United States HIV-1 Isolates," <i>Virology</i> <u>164</u> :531-536 (1988)

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L	KF-1	Gurunathan et al., "CD40 Ligand/Trimer DNA Enhances Both Humoral and Cellular Immune Responses and Induces Protective Immunity to Infectious and Tumor Challenge," <i>J Immunol.</i> <u>161</u> (9):4563-4571 (1998)
R.W	KG-1	Guyader et al., "Genome Organization and Transactivation of the Human Immunodeficiency Virus Type 2," <i>Nature</i> <u>326</u> :662-669 (1987)
	KH-1	Hagensee et al., "Three-dimensional Structure of Vaccinia Virus-produced Human Papillomavirus Type 1 Capsids," <i>J. Virol.</i> <u>68</u> :4503-4505 (1994)
	KI-1	Hahn et al., "Genetic Variation in HTLV-III/LAV Over Time in Patients with AIDS or at Risk for AIDS," <i>Science</i> <u>232</u> :1548-1553 (1986)
	KJ-1	Hammer et al., "Issues in Combination Antiretroviral Therapy: a Review," <i>J Acquir Immune Defic Syndr.</i> <u>7</u> (Suppl 2):S24-S37 (1994)
	KK-1	Haynes et al., "Update on the Issues of Hiv Vaccine Development," <i>Ann Med.</i> <u>28</u> (1):39-41 (1996)
	KL-1	Haynes et al., "Toward an Understanding of the Correlates of Protective Immunity to Hiv Infection" <i>Science</i> <u>271</u> :324-328 (1996)
	KM-1	Heeney et al., "Beta-chemokines and Neutralizing Antibody Titers Correlate with Sterilizing Immunity Generated in HIV-1 Vaccinated Macaques," <i>Proc Natl Acad Sci USA</i> <u>95</u> (18):10803-10808 (1998)
	KN-1	Hickman, A. B., et al., "Biophysical and enzymatic properties of the catalytic domain of HIV-1 integrase," <i>Journal Of Biological Chemistry</i> <u>269</u> (46):29279-29287 (1994)
	KO-1	Ho et al., "Human Immunodeficiency Virus Neutralizing Antibodies Recognize Several Conserved Domains on the Envelope Glycoproteins," <i>J Virol.</i> <u>61</u> (6):2024-2028 (1987)
	KP-1	Jacobo-Molina, A. et al., "Crystal Structure of Human Immunodeficiency Virus Type 1 Reverse Transcriptase Complexed with Double-stranded DNA at 3.0 Å Resolution Shows Bent DNA," <i>Proceedings Of the National Academy Of Sciences Of the United States Of America</i> <u>90</u> (13):6320-6324 (1993)
	KQ-1	Katz, R. A. and Skalka, A. M., "The Retroviral Enzymes," <i>Annual Review Of Biochemistry</i> <u>63</u> :133-73 (1994)
	KR-1	Keefer, et al., "Safety and Immunogenicity of Env 2-3, a Human Immunodeficiency Virus Type 1 Candidate Vaccine, in Combination with a Novel Adjuvant, MTP-PE/MF59. NIAID AIDS Vaccine Evaluation Group," <i>AIDS Res Hum Retroviruses.</i> <u>12</u> (8):683-693 (1996)
R	KS-1	Kirnbauer et al., "Efficient Self-assembly of Human Papillomavirus Type 16 L1 and L1-L2 into Virus-Like Particles," <i>J. Virol.</i> <u>67</u> :6929-6936 (1993)

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	KT-1	Ktenerman, et al., "Original Antigenic Sin Impairs Cytotoxic T Lymphocyte Responses to Viruses Bearing Variant Epitopes," <i>Nature</i> <u>394</u> (6692):482-485 (1998)
BV	KU-1	Koff et al., "Development and Testing of AIDS Vaccines," <i>Science</i> <u>241</u> :426-432 (1988)
	KV-1	Koff and Schultz, "Progress and Challenges Toward an AIDS Vaccine: Brother, Can You Spare a Paradigm?" <i>J. Clinical Immunology</i> <u>16</u> (3):127-133 (1996)
	KW-1	Kohl et al., "Active Human Immunodeficiency Virus Protease Is Required for Viral Infectivity," <i>PNAS USA</i> <u>85</u> :4686-4690 (1988)
	KX-1	Kohlstaedt, L. A. et al., "Crystal Structure at 3.5 Å Resolution of HIV-1 Reverse Transcriptase Complexed with an Inhibitor," <i>Science</i> <u>256</u> (5065):1783-1790 (1992)
	KY-1	Koup et al., "Temporal Association of Cellular Immune Responses with the Initial Control of Viremia in Primary Human Immunodeficiency Virus Type 1 Syndrome," <i>J Virol.</i> <u>68</u> (7):4650-4655 (1994)
	KZ-1	Kovacs et al., "Increases in CD4 T Lymphocytes with Intermittent Courses of Interleukin-2 in Patients with Human Immunodeficiency Virus Infection," <i>New England J. Med.</i> <u>332</u> (9):567-575 (1995)
	LA-1	Kovacs et al., "Controlled Trial of Interleukin-2 Infusions in Patients Infected with the Human Immunodeficiency Virus," <i>N Engl J Med.</i> <u>335</u> (18):1350-1356 (1996)
	LB-1	Krausslich et al., "Processing of in Vitro-synthesized Gag Precursor Proteins of Human Immunodeficiency Virus (HIV) Type 1 by HIV Proteinase Generated in <i>Escherichia coli</i> ," <i>J. Virol.</i> <u>62</u> :4393-4397 (1988)
	LC-1	Kreuter J., et al., "Mode of Action of Immunological Adjuvants: Some Physicochemical Factors Influencing the Effectivity of Polyacrylic Adjuvants," <i>Infect Immun.</i> <u>19</u> (2):667-675 (1978)
	LD-1	Krug, M. S. and Berger, S. L., "Reverse Transcriptase from Human Immunodeficiency Virus: a Single Template-primer Binding Site Serves Two Physically Separable Catalytic Functions," <i>Biochemistry</i> <u>30</u> (44):10614-10623 (1991)
	LE-1	Lalvani A. et al., "Rapid effector Function in CD8+ Memory T Cells," <i>J. Exp. Med.</i> <u>186</u> :859-865 (1997)
	LF-1	Lasky et al., "Delineation of a Region of the Human Immunodeficiency Virus Type 1 gp120 Glycoprotein Critical for Interaction with the CD4 Receptor," <i>Cell</i> <u>50</u> (6):975-985 (1987)
	LG-1	Levy et al., "Isolation of Lymphocytopathic Retroviruses from San Francisco Patients with AIDS," <i>Science</i> <u>225</u> :840-842 (1984)
BV	LH-1	Littman et al., "Unusual Intron in the Immunoglobulin Domain of the Newly Isolated Murine CD4 (L3T4) Gene," <i>Nature</i> <u>325</u> (6103):453-455 (1987)

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B	LI-1	Looney et al., "Type-restricted Neutralization of Molecular Clones of Human Immunodeficiency Virus," <i>Science</i> 241:357-359 (1988)
	LJ-1	Maddon et al., "The Isolation and Nucleotide Sequence of a Cdna Encoding the T Cell Surface Protein T4: a New Member of the Immunoglobulin Gene Family," <i>Cell</i> 42(1):93-104 (1985)
BV	LK-1	Maignan, S., et al. "Crystal Structures of the Catalytic Domain of HIV-1 Integrase Free and Complexed with its Metal Cofactor: High Level of Similarity of the Active Site with Other Viral Integrases," <i>Journal Of Molecular Biology</i> 282(2):359-368 (1998)
	LL-1	Manca et al., "Antigenicity of Hiv derived T Helper Determinants in the Context of Carrier Recombinant Proteins: Effect on T Helper Cell Repertoire Selection," <i>Eur J Immunol.</i> 26(10):2461-2469 (1996)
BV	LM-1	Mazumder, A., et al., "Effects of nucleotide analogues on human immunodeficiency virus type 1 integrase," <i>Molecular Pharmacology</i> 49(4):621-628 (1996)
	LN-1	Mazza et al., "Recombinant Interleukin-2 (Ril-2) in Acquired Immune Deficiency Syndrome (Aids): Preliminary Report in Patients with Lymphoma Associated with Hiv Infection," <i>Eur J Haematol.</i> 49(1):1-6 (1992)
BV	LO-1	McHeyzer-Williams, M.G. et al, "Enumeration and Characterization of Memory Cells in the Th Compartment," <i>Immunol. Rev.</i> 150:5-21 (1996)
	LP-1	McCluskie, et al., "Route and method of delivery of DNA vaccine influence immune responses in mice and non-human primates," <i>Mol Med.</i> 5(5):287-300 (1999)
BV	LQ-1	McCormack et al., "HIV Protease Substrate Conformation: Modulation by Cyclophilin A," <i>FEBS Letts</i> 414:84-88 (1997)
	LR -1	McMichael, A.J. and O'Callaghan, C.A., "A New Look at T Cells," <i>J. Exp. Med.</i> 187(9):1367-1371 (1998)
	LS-1	Modrow et al., "Computer-assisted Analysis of Envelope Protein Sequences of Seven Human Immunodeficiency Virus Isolates: Prediction of Antigenic Epitopes in Conserved and Variable Regions," <i>J. Virol.</i> 61(2):570-578 (1987)
	LT-1	Montagnier et al., "Human T-Cell Leukemia Viruses: The Family of Human T-Lymphotropic Retroviruses: Their Role in Malignancies and Association with AIDS," <i>Gallo, Essex & Gross, eds.</i> , pp 363-379 (1984)
B	LU-1	Myers et al., "Human Retroviruses and AIDS," published by the Los Alamos National Laboratory, Los Alamos, NM, 1991, pp. I-A-48 to I-A-56 and II-77 to II-88
	JV-1	Nathanson et al. "Biological Considerations in the Development of a Human Immunodeficiency Virus Vaccine," <i>J Infect Dis.</i> 182(2):579-589 (2000)

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BV	LW-1	Novitsky et al., "Molecular Cloning and Phylogenetic Analysis of Human Immunodeficiency Virus Type 1 Subtype C: a Set of 23 Full-Length Clones from Botswana," <i>J. Virol.</i> <u>73</u> (5):4427-4432 (1999)
	LX-1	Nowak and Bangham, "Population Dynamics of Immune Responses to Persistent Viruses," <i>Science</i> <u>272</u> (5258):74-79 (1996)
	LY-1	Odile et al., "Anti-HIV Active Immunization, Evidence for Persistent Cell Mediated Immunity after a 2 Year Follow Up," Eighth International Conference on AIDS/III STD World Congress Amsterdam, The Netherlands 19-24 July 1992, Abstract No. MOB 0024
	LZ-1	Okuda et al., "Induction of Potent Humoral and Cell-mediated Immune Responses Following Direct Injection of DNA Encoding the HIV Type 1 Env and Rev gene Products," <i>AIDS Res Hum Retroviruses</i> . <u>11</u> (8):933-943 (1995)
	MA-1	Palaniappan, C. et al., "Mutations Within the Primer Grip Region of HIV-1 Reverse Transcriptase Result in Loss of RNase H Function," <i>Journal Of Biological Chemistry</i> <u>272</u> (17):11157-11164 (1997)
	MB-1	Park et al., "Overexpression of The Gag-pol Precursor From Human Immunodeficiency Virus Type 1 Proviral Genomes Results in Efficient Proteolytic Processing in The Absence of Virion Production," <i>J. Virol.</i> <u>65</u> :5111 (1991)
	MC-1	Patel et al., "Insights into DNA Polymerization Mechanisms from Structure and Function Analysis of HIV-1 Reverse Transcriptase," <i>Biochemistry</i> <u>34</u> :5351-5363 (1995)
	MD-1	Perelson, et al., "Decay Characteristics of Hiv-1-infected Compartments During Combination Therapy," <i>Nature</i> <u>387</u> (6629):188-191 (1997)
	ME-1	Popovic et al., "Detection, Isolation, and Continuous Production of Cytopathic Retroviruses (HTLV-III) from Patients with AIDS and Pre-AIDS," <i>Science</i> <u>224</u> :497-500 (1984)
	MF-1	Pyle et al., "Immune Response to Immunostimulatory Complexes (ISCOMs) Prepared from Human Immunodeficiency Virus Type 1 (HIV-1) or the HIV-1 External Envelope Glycoprotein (gp120)," <i>Vaccine</i> <u>7</u> (5):465-473 (1989)
	MG-1	Redfield and Birx, "Hiv-specific Vaccine Therapy: Concepts, Status, and Future Directions," <i>AIDS Res Hum Retroviruses</i> <u>8</u> (6):1051-1058 (1992)
	MH-1	Reicin, A.S. et al., "Linker Insertion Mutations in the Human Immunodeficiency Virus Type 1 Gag Gene: Effects on Virion Particle Assembly, Release, and Infectivity," <i>J. Virol.</i> <u>69</u> (2):642-650 (1995)
BV	MI-1	Robey, et al., "Prospect for Prevention of Human Immunodeficiency Virus Infection: Purified 120-kDa Envelope Glycoprotein Induces Neutralizing Antibody," <i>Proc Natl Acad Sci USA</i> <u>83</u> (18):7023-7027 (1986)

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PV	MJ-1	Rodgers, D. W. et al., "The Structure of Unliganded Reverse Transcriptase from the Human Immunodeficiency Virus Type 1," <i>Proceedings Of the National Academy Of Sciences Of the United States Of America</i> <u>92</u> (4):1222-1226 (1995)
	MK-1	Saag, et al., "Extensive Variation of Human Immunodeficiency Virus Type-1 <i>in vivo</i> ," <i>Nature</i> <u>334</u> :440-444 (1988)
	ML-1	Saag and Kuritzkes, "Strategies for Continuing Antiretroviral Therapy," <i>Intl AIDS Society USA</i> <u>4</u> (2):16-19 (1996)
	MM-1	Salk et al., "Prospects for the Control of Aids by Immunizing Seropositive Individuals," <i>Nature</i> <u>327</u> (6122):473-476 (1987)
	MN-1	Scherthaner, et al., "Endosperm-specific Activity of a Zein Gene Promoter in Transgenic Tobacco Plants," <i>The EMBO J.</i> <u>7</u> :1249-1259 (1988)
	MO-1	Schulhafer et al., "Acquired Immunodeficiency Syndrome: Molecular Biology and its Therapeutic Intervention (review)," <i>In Vivo</i> <u>3</u> (2):61-78 (1989)
	MP-1	Sheng N. and Dennis, D., "Active Site Labeling of HIV-1 Reverse Transcriptase," <i>Biochemistry</i> <u>32</u> (18):4938-4942 (1993)
	MQ-1	Smith et al., "Blocking of HIV-1 infectivity by a soluble, secreted form of the CD4 antigen," <i>Science</i> <u>238</u> (4834):1704-1707 (1987)
	MR-1	Spence R. A., et al., "Mechanism of Inhibition of HIV-1 Reverse Transcriptase by Nonnucleoside Inhibitors," <i>Science</i> <u>267</u> (5200):988-993 (1995)
	MS-1	Srinivasan et al., "Molecular Characterization of Human Immunodeficiency Virus from Zaire: Nucleotide Sequence Analysis Identifies Conserved and Variable Domains in the Envelope Gene," <i>Gene</i> <u>52</u> :71-82 (1987)
	MT-1	Starcich et al., "Identification and Characterization of Conserved and Variable Regions in the Envelope Gene of HTLV-III/LAV, the Retrovirus of AIDS," <i>Cell</i> <u>45</u> :637-648 (1986)
	MU-1	Steimer et al., "Genetically Engineered Human Immunodeficiency Envelope Glycoprotein Gp120 Produced in Yeast Is the Target of Neutralizing Antibodies," <i>Vaccines</i> <u>8</u> :236-241 (1987)
BV	MV-1	Sternberg et al., "Prediction of Antigenic Determinants and Secondary Structures of the Major Aids Virus Proteins," <i>FEBS Letters</i> <u>218</u> (2):231-237 (1987)

Examiner: *B. Whiteman*

Date Considered: *2/10/03*

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 Sheet 18 of 19

In re the Application of Barnett et al.

Examiner: B. Whiteman

Serial No.: 09/475,704

Art Unit: 1635

Filed: December 30, 1999

Confirmation No.: 6738

Title: POLYNUCLEOTIDES ENCODING ANTIGENIC TYPE C POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF

Atty. Docket No.: 1631.002 (2302-1631)

Ex'r Initial	Ref. No.	Description
BV	MW-1	Tindle et al., "Chimeric Hepatitis B Core Antigen Particles Containing B- and Th-epitopes of Human Papillomavirus Type 16 E7 Protein Induce Specific Antibody and T-helper Responses in Immunised Mice," <i>Virology</i> <u>200</u> :547-557 (1994)
BR	MX-1	Vacca et al., "L-735,524: an Orally Bioavailable Human Immunodeficiency Virus Type 1 Protease Inhibitor," <i>Proc Natl Acad Sci USA</i> <u>91</u> (9):4096-4100 (1994)
~	MY-1	Verma et al., "Gene therapy - Promises, Problems and Prospects," <i>Nature</i> <u>389</u> (6648):239-242 (1997)
PH	MZ-1	Vilmer et al., "Isolation of New Lymphotropic Retrovirus from Two Siblings with <i>Haemophilia B</i> , One with AIDS," <i>The Lancet</i> <u>1</u> :753 (1984)
W	NA-1	Wagner R., et al., "Studies on Processing, Particle Formation, and Immunogenicity of the HIV-1 gag Gene Product: a Possible Component of a HIV Vaccine," <i>Arch Virol.</i> <u>127</u> :117-137 (1992)
	NB-1	Wagner et al., "Assembly and Extracellular Release of Chimeric HIV-1 PR55gag Retrovirus-like Particles," <i>Virology</i> <u>200</u> :162-175 (1994)
	NC-1	Wagner et al., "Construction, Expression, and Immunogenicity of Chimeric HIV-1 Virus-like Particles," <i>Virology</i> <u>220</u> :128-140 (1996)
	ND-1	Wakefield, J. K. et al., "In Vitro Enzymatic Activity of Human Immunodeficiency Virus Type 1 Reverse Transcriptase Mutants in the Highly Conserved YMDD Amino Acid Motif Correlates with the Infectious Potential of the Proviral Genome," <i>Journal Of Virology</i> <u>66</u> (11):6806-6812 (1992)
	NE-1	Wan et al., "Autoprocessing: an Essential Step for the Activation of HIV-1 Protease," <i>Biochem. J.</i> <u>316</u> :569-573 (1996)
	NF-1	Wang et al., "Induction of Humoral and Cellular Immune Responses to the Human Immuno-deficiency Type 1 Virus in Nonhuman Primates by in Vivo DNA Inoculation," <i>Virology</i> <u>211</u> (1):102-112 (1995)
	NG-1	Wang C. et al., "Analysis of Minimal Human Immunodeficiency Virus Type 1 Gag Coding Sequences Capable of Virus-like Particle Assembly and Release," <i>J Virol.</i> <u>72</u> (10): 7950-7959 (1998)
	NH-1	Wu X., et al., "Targeting foreign proteins to human immunodeficiency virus particles via fusion with Vpr and Vpx," <i>J. Virol.</i> <u>69</u> (6):3389-3398 (1995)
	NI-1	Yeni et al., "Antiretroviral and Immune-based Therapies: Update," <i>AIDS</i> <u>7</u> (Suppl 1):S173-S184 (1993)
	NJ-1	Yenofsky et al., "A Mutant Neomycin Phosphotransferase II Gene Reduces the Resistance of Transformants to Antibiotic Selection Pressure," <i>Proc. Natl. Acad. Sci. USA</i> <u>87</u> :3435-3439 (1990)
PV	NK-1	Yourno et al., "Nucleotide Sequence Analysis of the Env Gene of a New Zairian Isolate of HIV-1," <i>AIDS Res Hum Retroviruses</i> <u>4</u> (3):165-73 (1988)

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Ex'r Initial	Ref. No.	Description
PV	NL-1	Zagury et al., "Progress Report IV on Aids Vaccine in Human: Phase I Clinical Trial in Hiv Infected Patients," <i>VII International Conference on AIDS</i> , Florence June 16-21, 1991, Abstract No. M.A. 67
	NM-1	Zagury et al., "One-year Follow-up of Vaccine Therapy in Hiv-infected Immune-deficient Individuals: a New Strategy," <i>J. Acquired Immune Deficiency Syndromes</i> <u>5</u> :676-681 (1992)
	NN-1	Zhang Y., et al., "Analysis of the Assembly Function of the Human Immunodeficiency Virus Type 1 Gag Protein Nucleocapsid Domain," <i>J Virol</i> <u>72</u> (3):1782-1789 (1998)
BW	NO-1	zur Megede et al., "Increased Expression and Immunogenicity of Sequence-modified Human Immunodeficiency Virus Type 1 Gag Gene," <i>J Virol</i> . <u>74</u> (6):2628-2635 (2000)

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